

## Chapter 1 DESCRIPTION OF WATER SYSTEM

### 1A. Ownership and Management

The High Ridge Water System will be constructed by High Ridge LLC. Ownership of the system will pass to GPM Water Systems, Mr. Gary Stuart. Operation of the system will be by Mr. Gary Stuart, GPM Water Systems

#### System Contact Information:

GPM Water Systems  
11310 Lewis River Rd  
Ariel, WA 98603

Tel (360) 231-4352

### 1B. History of Water System

This water system does not have any significant history. The water system is intended to serve the 40 single family residential lots of the High Ridge Large Lot Sub-division. At this point the water system has not been constructed nor has it been put into service. The plat developer is High Ridge Land Company, LLC. High Ridge Land Company intends to dedicate the water system to GPM Water Systems to own and operate. The High Ridge Water System will be served by 5 existing wells. These wells produce between 3.5 and 5 gallons per minute. A sixth well was constructed by will not be used and will be abandoned due to arsenic contamination. A water storage reservoir and booster pump station will be constructed. The service connections will be connected to a non-looped distribution system. To keep the lower service connections from being over pressurized a pressure reducing station and several service pressure reducing valves will be provided.

### 1C. Geography

The High Ridge plat is located east of Interstate 5, northerly of the town of Woodland, in the steep foothills. The slope generally southerly down towards Lewis River. The highest service connection will attain an elevation of approximately 1,100 feet above mean sea level near the northeast corner the service area. The lowest service connections, in the vicinity of the southerly portions of the service area drop to elevations ranging between 650 and 725 feet above mean sea level. The service area is characterized by steep hillsides and deep gullies. Although the subdivision lots are rather large, the houses and developed areas are restricted to the areas near to the platted roadways due to slope setback requirements. Average annual rainfall is approximately 70 inches per year according to Washington Annual Precipitation Map by the United States Department of Agriculture and Natural Resources Conservation Service.

3/22/06

FYI -

Per WSP draft dated 1/26/06,  
a 6<sup>th</sup> well was constructed, but  
will be 'abandoned' (decommissioned?)  
due to contamination of arsenic.

Before going to cert, verify which  
wells are active + that decommissioning info  
has been sent - Del Henemull

## WATER WELL REPORT

Start Card No. W 176214  
Unique Well I.D. # AKAB30  
Water Right Permit No.

STATE OF WASHINGTON

(1) OWNER: Name HIGH RIDGE LAND COMPANY Address 602 NW 353 STREET LA CENTER, WA 98629-

(2) LOCATION OF WELL: County COWLITZ

- NE 1/4 NW 1/4 Sec 6 T 5N N., R 1E WM

(2a) STREET ADDRESS OF WELL (or nearest address) LOT # 55 850 SOMMERSET RD, WOODLAND

(3) PROPOSED USE: COMMUNITY

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well  
(If more than one) 1  
NEW WELL Method: ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 622 ft. Depth of completed well 622 ft.

MATERIAL	FROM	TO
PIT RUN ROCK	0	3
TOP SOIL	3	5
CLAY BROWN	5	16
GRITTY CLAY BROWN	16	30
DECOMPOSED ROCK BROWN	30	47
WITH CLAY BROWN	30	47
ROCK BROWN BLUE	47	52
SLIGHTLY BROKEN MEDIUM	47	52
ROCK BROWNISH BLUE	52	101
MEDIUM	52	101
ROCK REDDISH BROWN	101	117
MED. SOFT	101	117
DECOMPOSED ROCK BROWN	117	137
W/SOME CLAYS BROWN	117	137
MED. SOFT	117	137
ROCK BROWN WITH	137	144
BLUE MEDIUM	137	144
ROCK BLUE MED. HARD	144	151
SHALE ROCK RED WITH	151	167
WITH BLUE MEDIUM	151	167
ROCK BLUE BROWN	167	230
ROCK BROWN MED. SOFT	230	242
ROCK BLUE BROWN	242	250
MEDIUM	242	250
DECOMPOSED ROCK BROWN	250	270
YELLOW MEDIUM	250	270
SHALE ROCK BLACKISH WHITE	270	283
MEDIUM SLIGHTLY BROKEN	270	283
SHALE ROCK BLUEISH WHITE	283	327
MEDIUM	283	327
ROCK BLACK WITH	327	350
WHITE MED. HARD	327	350
SHALE ROCK BLUE-GRAY MEDIUM	350	375

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 " Dia. from +1.84 ft. to 58.7 ft.  
WELDED " Dia. from ft. to ft.  
4.5 " Dia. from +1.67 ft. to 620.3 ft.

Perforations: YES

Type of perforator used SAW

SIZE of perforations 3/8 in. by 6 in.

44 perforations from 402 ft. to 619 ft.

perforations from ft. to ft.

perforations from ft. to ft.

Screens: NO

Manufacturer's Name

Type

Model No.

Diam. slot size from ft. to ft.

Diam. slot size from ft. to ft.

Gravel packed: NO

Size of gravel

Gravel placed from ft. to ft.

Surface seal: YES

To what depth? 58 ft.

Material used in seal 3/8" BENTONITE

Did any strata contain unusable water? NO

Type of water? Depth of strata ft.

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type

H.P.

(8) WATER LEVELS:

Land-surface elevation

above mean sea level ... ft.

Static level 138.2 ft. below top of well Date 06/07/04

Artesian Pressure lbs. per square inch Date

Artesian water controlled by

PLEASE SEE ATTACHED SHEET FOR ADDITIONAL FORMATIONS

Work started 06/03/04

Completed 06/07/04

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?

Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

Date of test / /

Bailer test gal/min. ft. drawdown after hrs.

Air test 30 gal/min. w/ stem set at 521 ft. for 1 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? NO

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME DALE MCGHEE &amp; SONS, INC.

(Person, firm, or corporation) (Type or print)

ADDRESS 3032 ALLEN ST. KELSO, WA.

[SIGNED] License No. 2345

Contractor's

Registration No. DALEMI#212MC

Date 06/14/04



WATER WELL REPORT  
STATE OF WASHINGTON  
CONTINUATION SHEET

(10) WELL LOG		FROM	T
MATERIAL			
SHALE ROCK BLUE WITH			375
YELLOW-BROWN MEDIUM			375
SHALE ROCK BLUE WITH			401
YELLOW BROWN CLAYSTONE			401
MED. SOFT			401
SHALE ROCK BLUE - GREEN SLIGHTLY			415
BROKEN WATER BEARING MEDIUM			415
SHALE ROCK BLUE - GREEN MEDIUM			419
SHALE ROCK BLUE-GRAY MEDIUM			425
DECOMPOSED ROCK BROWN			430
YELLOW MEDIUM			430
ROCK BLUE WITH			437
BROWN MEDIUM			437
SHALE ROCK BLUE WHITE			444
MEDIUM			444
ROCK GREEN BLUE			475
MED. HARD			475
ROCK GREEN BLUE			481
RED MED. HARD			481
ROCK GREEN BLUE			510
SLIGHTLY BROKEN MED. HARD			510
ROCK GREEN BLUE			513
MED. HARD			513
ROCK BLACK MEDIUM			547
ROCK GREEN BLUE			558
BLACK MEDIUM			558
ROCK BLACK HARD			565
ROCK GREEN WHITE			573
MEDIUM			573
ROCK BLUE - GREEN MED. HARD			590

STATE OF WASHINGTON

well #2

(1) OWNER: Name HIGH RIDGE LAND COMPANY Address 602 NW 353 STREET LA CENTER, WA 98629-  
(2) LOCATION OF WELL: County COWLITZ - NE 1/4 NW 1/4 Sec 6 T 5 N., R 1E WM  
(2a) STREET ADDRESS OF WELL (or nearest address) LOT #53 837 SOMMERSET RD, WOODLAND

(3) PROPOSED USE: COMMUNITY

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well  
(If more than one) 2  
NEW WELL Method: ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 560 ft. Depth of completed well 560 ft.

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Dia. from +2.34 ft. to 112.8 ft.  
WELDED " Dia. from ft. to ft.  
5.56 " Dia. from 16.50 ft. to 559 ft.

MATERIAL	FROM	TO
CLAY BROWN	0	4
CLAY TAN	4	16
GRITTY CLAY TAN	16	73
BROWN	16	73
DECOMPOSED ROCK AND	73	87
CLAY BROWN YELLOW	73	87
BROKEN ROCK BROWN	87	110
ROCK BROWN MEDIUM	110	127
ROCK BLUE WITH	127	168
BROWN MEDIUM	127	168
ROCK RED W/SOME	168	184
CLAYS RED BROWN	168	184
MED. SOFT	168	184
ROCK BLUE BROWN	184	208
YELLOW MEDIUM	184	208
DECOMPOSED ROCK AND	208	244
CLAY YELLOW BROWN	208	244
MED. SOFT WATER BEARING	208	244
DECOMPOSED ROCK YELLOW-BROWN	244	248
WITH RED STREAKS	244	248
SLIGHTLY BROKEN MEDIUM	244	248
DECOMPOSED ROCK YELLOW-BROWN	248	275
WITH RED STREAKS	248	275
MEDIUM	248	275
ROCK BLUE WHITE	275	282
MEDIUM	275	282
DECOMPOSED ROCK YELLOW-BROWN	282	310
BLUE MEDIUM	282	310
SHALE ROCK BLUE WHITE	310	325
MEDIUM	310	325
DECOMPOSED ROCK BROWN	325	330
YELLOW SLIGHTLY BROKEN	325	330
WITH BLUE MEDIUM	325	330

Perforations: YES

Type of perforator used TORCH-CUT

SIZE of perforations 3/8 in. by 6 in.  
70 perforations from 242 ft. to 558 ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

Screens: NO

Manufacturer's Name

Type

Model No.

Diam. slot size from ft. to ft.  
Diam. slot size from ft. to ft.

Gravel packed: NO

Size of gravel

Gravel placed from ft. to ft.

Surface seal: YES

To what depth? 38 ft.

Material used in seal 3/8" BENTONITE

Did any strata contain unusable water? NO

Type of water?

Depth of strata ft.

Method of sealing strata off

(7) PUMP: Manufacturer's Name

Type

H.P.

(8) WATER LEVELS:

Land-surface elevation

Static level 114 ft. below top of well Date 06/11/04

Artesian Pressure lbs. per square inch Date

Artesian water controlled by

PLEASE SEE ATTACHED SHEET FOR ADDITIONAL FORMATIONS

Work started 06/08/04

Completed 06/11/04

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?

Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

Date of test / /

Bailer test gal/min. ft. drawdown after hrs.

Air test 30 gal/min. w/ stem set at 482 ft. for 1 hrs.

Artesian flow g.p.m. Date

Temperature of water Was a chemical analysis made? NO

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME DALE MCGHEE &amp; SONS, INC.

(Person, firm, or corporation) (Type or print)

ADDRESS 3032 ALLEN ST. KELSO, WA.

[SIGNED]  License No. 2345

Contractor's

Registration No. DALEMI#212MC

Date 06/14/04

WATER WELL REPORT  
STATE OF WASHINGTON  
CONTINUATION SHEET

(10) WELL LOG		
MATERIAL		
	FROM	TO
SHALE ROCK BLUE WHITE	330	
MEDIUM	330	
SHALE ROCK BLUE RED	374	
RED BROWN MEDIUM	374	
ROCK BLUE GREEN	417	
MEDIUM	417	
ROCK BLUE-GRAY MEDIUM	422	
ROCK BLUE - GREEN RED	433	
MED. HARD	433	
DECOMPOSED ROCK BROWN	447	
YELLOW BROKEN GREEN	447	
BLUE MEDIUM	447	
ROCK BLUE - GREEN MEDIUM	455	
DECOMPOSED ROCK YELLOW-BROWN	477	
WITH BLUE MEDIUM	477	
ROCK BLUE - GREEN MEDIUM	487	
ROCK BLUE WITH	493	
RED GRAY MED. HARD	493	
ROCK BLACK BLUE	522	
MED. HARD	522	



## WATER WELL REPORT

Start Card No. W 176225  
Unique Well I.D. # AKA839  
Water Right Permit No.

STATE OF WASHINGTON

(1) OWNER: Name HIGH RIDGE LAND COMPANY Address 602 NW 352 STREET LA CENTER, WA 98629-

LOCATION OF WELL: County COWLITZ

- NE 1/4 NW 1/4 Sec 6 T 5 N., R 1E WM

(2) STREET ADDRESS OF WELL (or nearest address) LOT#59 796 SOMMERSET ROAD, WOODLAND

(3) PROPOSED USE: COMMUNITY

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well 3  
(If more than one)  
NEW WELL Method: ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 604 ft. Depth of completed well 604 ft.

MATERIAL FROM TO

(6) CONSTRUCTION DETAILS:

Casing installed: 6 " Dia. from +2.67 ft. to 138.2 ft.  
WELDED " Dia. from ft. to ft.  
4.5 " Dia. from 4 ft. to 604 ft.

PIT ROCK	0	3
FILL DIRT	3	5
TOP SOIL	5	7
ROCK FRACTURED WITH BROWN SANDY CLAY	7	25
CLAY YELLOW-BROWN	7	25
ROCK BLUE AND BROWN FRACTURED	25	37
FRACTURED ROCK BROWN MEDIUM	37	52
SHALE ROCK RED MED. SOFT	52	118
SHALE ROCK RED AND BLUE MEDIUM	118	135
ROCK BLUE WITH SLIGHT YELLOW CLAY BINDER	135	158
MEDIUM	135	158
ROCK BLUE-GRAY MED. HARD	158	163
ROCK GRAY AND BROWN FRACTURED	158	163
SHALE ROCK RED MED. SOFT	163	171
SHALE ROCK BLUE-GRAY MEDIUM	171	204
ROCK BLUE MED. HARD	171	204
SHALE BLUE - GREEN WITH RED BROWN MEDIUM	204	273
SHALE ROCK BLUE - GREEN MEDIUM	273	308
SHALE ROCK BLUE WITH RED MEDIUM	308	365
ROCK BLUE MED. HARD	365	373
ROCK RED BROWN WITH BLUE MEDIUM	365	373
ROCK BLUE MED. HARD	373	397
WITH BLUE MEDIUM	397	401
ROCK BLUE MED. HARD	397	401
ROCK RED BROWN	401	413
WITH BLUE MEDIUM	413	420
ROCK BLUE MED. HARD	413	420
ROCK BLUE WITH RED BROWN MEDIUM	420	435
	435	441

PLEASE SEE ATTACHED SHEET FOR ADDITIONAL FORMATIONS

Work started 06/25/04

Completed 06/29/04

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Was a pump test made? NO If yes, by whom?  
Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

NAME DALE MCGHEE &amp; SONS, INC.

(Person, firm, or corporation) (Type or print)

ADDRESS 3032 ALLEN ST. KELSO, WA.

[SIGNED]  License No. 2345

Contractor's

Registration No. DALEMI#212MC

Date 07/02/04

Date of test / /  
Bailer test gal/min. ft. drawdown after hrs.  
Air test 30 gal/min. w/ stem set at 603 ft. for 1 hrs.  
Artesian flow g.p.m. Date  
Temperature of water Was a chemical analysis made? NO

WATER WELL REPORT  
STATE OF WASHINGTON  
CONTINUATION SHEET

(10) WELL LOG  
MATERIAL

FROM	TO
441	47
441	47
441	47
475	49
475	44
490	44
490	49
497	5
497	5
552	5
552	5
555	5
555	5
561	5
565	5
579	5
579	5
579	5
581	5
581	5
585	6

ROCK BLUE WITH  
GREEN AND WHITE  
MEDIUM  
ROCK BLUE RED  
BROWN MEDIUM  
ROCK RED MEDIUM  
WATER BEARING  
DECOMPOSED ROCK YELLOW  
WITH BROWN MED. SOFT  
BROKEN ROCK BLUE  
WITH YELLOW  
DECOMPOSED ROCK GREENISH  
YELLOW MEDIUM  
ROCK BLUE - GREEN MEDIUM  
ROCK BROWN MEDIUM  
ROCK BLUE - GREEN WITH  
WITH BROWN YELLOW  
MEDIUM  
DECOMPOSED ROCK YELLOW  
BROWN MEDIUM  
ROCK BLUE - GREEN MEDIUM



well #4

WATER WELL REPORT

Start Card No. W 176226

STATE OF WASHINGTON

Unique Well I.D. # AXA841

Water Right Permit No.

(1) OWNER: Name HIGH RIDGE LAND COMPANY Address 602 NW 353 STREET LACENTER, WA 98629-

(2) LOCATION OF WELL: County COWLITZ - SE 1/4 NW 1/4 Sec 6 T 5 N., R 1E WM

(2a) STREET ADDRESS OF WELL (or nearest address) LOT # 61 770 SOMMERSET RD, WOODLAND

(3) PROPOSED USE: COMMUNITY

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well  
(If more than one) 4  
NEW WELL Method: ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 544 ft. Depth of completed well 544 ft.

MATERIAL FROM TO

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 " Dia. from +1.50 ft. to 120.3 ft.  
WELDED " Dia. from ft. to ft.  
4.5 " Dia. from 4 ft. to 544 ft.

PIT RUN ROCK 0 5

TOP SOIL 5 8

CLAY BROWN 8 18

CLAY BROWN RED 18 37

DECOMPOSED ROCK 18 37

CLAY TAN WITH 37 62

BROKEN ROCK 37 62

CLAY BROWN WITH 62 70

BROKEN ROCK 62 70

CLAY TAN WITH 70 110

BROKEN ROCK 70 110

SHALE ROCK RED BROWN 110 135

MEDIUM 110 135

ROCK BROWN YELLOW 135 175

MED. HARD 135 175

SHALE AND CLAYS 175 227

BLUE WITH BROWN 175 227

MED. SOFT 175 227

ROCK BROWN BLUE 227 248

MEDIUM 227 248

ROCK BLUE BROWN 248 256

MED. HARD 248 256

ROCK BLUE BROWN 256 265

FRACTURED MEDIUM 256 265

ROCK BROWN RED 265 283

MEDIUM 265 283

ROCK BLUE WITH 283 289

RED MEDIUM 283 289

ROCK BLUE MED. HARD 289 325

ROCK BROWN RED 325 347

BLUE MED. HARD 325 347

ROCK BROWN RED 347 350

MEDIUM SLIGHTLY BROKEN 347 350

Screens: NO  
Manufacturer's Name  
Type Model No.  
Diam. slot size from ft. to ft.  
Diam. slot size from ft. to ft.

Gravel packed: NO Size of gravel  
Gravel placed from ft. to ft.

Surface seal: YES To what depth? 21 ft.  
Material used in seal 3/8" BENTONITE  
Did any strata contain unusable water? NO  
Type of water? Depth of strata ft.  
Method of sealing strata off

(7) PUMP: Manufacturer's Name  
Type H.P.

(8) WATER LEVELS: Land-surface elevation  
above mean sea level ... ft.  
Static level 186.4 ft. below top of well Date 07/02/04  
Artesian Pressure lbs. per square inch Date  
Artesian water controlled by

PLEASE SEE ATTACHED SHEET FOR ADDITIONAL FORMATIONS

Work started 06/30/04

Completed 07/02/04

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?  
Yield: gal./min with ft. drawdown after hrs.

Recovery data  
Time Water Level Time Water Level Time Water Level

Date of test / /  
Bailer test gal/min. ft. drawdown after hrs.  
Air test 42 gal/min. w/ stem set at 543 ft. for 1 hrs.  
Artesian flow g.p.m. Date  
Temperature of water Was a chemical analysis made? NO

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME DALE MCGHEE & SONS, INC.  
(Person, firm, or corporation) (Type or print)

ADDRESS 3032 ALLEN ST KELSO, WA.

[SIGNED] License No. 2345

Contractor's  
Registration No. DALEMI#212MC Date 07/08/04

WATER WELL REPORT  
STATE OF WASHINGTON  
CONTINUATION SHEET

(10) WELL LOG

MATERIAL	FROM	TO
ROCK BROWN RED	350	351
MEDIUM	350	351
ROCK BROWN YELLOW	361	361
BROKEN MEDIUM	361	361
ROCK RED BROWN	369	369
MEDIUM	369	369
ROCK RED BLUE	382	382
MEDIUM	382	382
ROCK BLUE MED. HARD	387	387
ROCK RED BROWN	396	396
MEDIUM	396	396
ROCK BLUE MED. HARD	399	399
ROCK BLUE BROWN	434	434
WITH CLAYSTONE FRACTURED	434	434
MEDIUM	434	434
ROCK BROWN RED	440	440
DECOMPOSED BROKEN MEDIUM	440	440
ROCK BROWN RED	446	446
MEDIUM	446	446
ROCK BLUE MED. HARD	464	464
ROCK BLUE - GREEN BROWN	474	474
MEDIUM FRACTURED	474	474
ROCK RED WITH	484	484
WHITE MEDIUM	484	484
ROCK BLUE - GREEN WHITE	490	490
MED. HARD	490	490
CLAYSTONE RED BROWN	497	497
MEDIUM	497	497
CLAYSTONE TAN MEDIUM	502	502
DECOMPOSED ROCK BROWN	516	516
YELLOW MEDIUM	516	516
ROCK BLUE MED. HARD	539	539



well #5

WATER WELL REPORT

Start Card No. W 176362  
Unique Well I.D. # AKAS70  
Water Right Permit No.

STATE OF WASHINGTON

156043

(1) OWNER: Name HIGH RIDGE LAND CO. LLC Address 602 353 STREET LA CENTER, WA 98629-

(2) LOCATION OF WELL: County COWLITZ - NW 1/4 SE 1/4 Sec 6 T 5 N., R 1E WM  
(2a) STREET ADDRESS OF WELL (or nearest address) LOT #61 770 SOMMERSET RD., WOODLAND

(3) PROPOSED USE: COMMUNITY

(10) WELL LOG

(4) TYPE OF WORK: Owner's Number of well  
(If more than one) 5  
NEW WELL Method: ROTARY

Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches  
Drilled 442 ft. Depth of completed well 442 ft.

MATERIAL	FROM	TO
PIT RUN	0	7
CLAY TAN	7	10
CLAY BROWN RED	10	20
DECOMPOSED ROCK AND	20	33
CLAY YELLOW-BROWN	20	33
BROKEN ROCK BLUE	33	90
BROWN WITH CLAY	33	90
SHALE ROCK RED WITH	90	107
CLAY RED	90	107
SHALE ROCK BLUE WITH	107	115
RED MEDIUM	107	115
ROCK BLUE BROWN	115	210
BROWN MEDIUM	115	210
ROCK RED WITH	210	235
BLUE MEDIUM SLIGHTLY	210	235
BROKEN	210	235
ROCK BLUE BROWN	235	270
MEDIUM	235	270
ROCK BLUE - GREEN MEDIUM	270	287
ROCK BLUE WITH	287	310
BROWN MEDIUM	287	310
WEATHERED ROCK BROWN	310	350
MEDIUM SLIGHTLY BROKEN	310	350
WATER BEARING	310	350
WEATHERED ROCK BROWN	350	387
WITH CRYSTALS	350	387
ROCK RED BROWN	387	390
FRACTURED MEDIUM	387	390
ROCK RED BROWN	387	390
MEDIUM	390	395
ROCK BROWN MEDIUM	390	395
ROCK RED BROWN	395	400
MEDIUM	395	400

(6) CONSTRUCTION DETAILS:  
Casing installed: 6 " Dia. from +3 ft. to 117.7 ft.  
WELDED " Dia. from ft. to ft.  
5 " Dia. from 2 ft. to 442 ft.

Perforations: YES

Type of perforator used TORCH-CUT  
SIZE of perforations 3/8 in. by 6 in.  
40 perforations from 342 ft. to 441 ft.  
perforations from ft. to ft.  
perforations from ft. to ft.

Screens: NO

Manufacturer's Name  
Type Model No.  
Diam. slot size from ft. to ft.  
Diam. slot size from ft. to ft.

Gravel packed: NO Size of gravel  
Gravel placed from ft. to ft.

Surface seal: YES To what depth? 58 ft.  
Material used in seal 3/8" BENTONITE  
Did any strata contain unusable water? NO  
Type of water? Depth of strata ft.  
Method of sealing strata off

(7) PUMP: Manufacturer's Name  
Type H.P.

(8) WATER LEVELS: Land-surface elevation  
above mean sea level ... ft.  
Static level 285.6 ft. below top of well Date 09/08/04  
Artesian Pressure lbs. per square inch Date  
Artesian water controlled by

PLEASE SEE ATTACHED SHEET FOR ADDITIONAL FORMATIONS

Work started 09/03/04

Completed 09/08/04

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.

Was a pump test made? NO If yes, by whom?  
Yield: gal./min with ft. drawdown after hrs.

Recovery data

Time Water Level Time Water Level Time Water Level

Date of test / /  
Bailer test gal/min. ft. drawdown after hrs.  
Air test 30 gal/min. w/ stem set at 441 ft. for 1 hrs.  
Artesian flow g.p.m. Date  
Temperature of water Was a chemical analysis made? NO

WELL CONSTRUCTOR CERTIFICATION:

I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME DALE MCGHEE & SONS, INC.

(Person, firm, or corporation) (Type or print)

ADDRESS 3032 ANLEY ST. KELSO, WA.

[SIGNED] License No. 2345

Contractor's

Registration No. DALEMI#212MC

Date 09/13/04

RECEIVED

SEP 16 2004

Washington State  
Department of Ecology



AKA870

WATER WELL REPORT  
STATE OF WASHINGTON  
CONTINUATION SHEET

(10) WELL LOG		
MATERIAL	FROM	TO
ROCK RED BROWN	400	41
BROKEN	400	41
ROCK RED BROWN	405	41
GREEN BROKEN	405	41
ROCK BROWN RED	410	46
GREEN MEDIUM	410	46



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

PO Box 47775 • Olympia, Washington 98504-7775 • (360) 407-6300

December 21, 2005

High Ridge Land Company LLC  
602 NW 353<sup>rd</sup> Street  
LaCenter WA 98629

Dear Sir or Madame:

RE: Permit No. **G2-30226**

Enclosed is your permit, No. **G2-30226**, which includes your Development Schedule.

***Completion of Construction form***

According to your permit, you are to complete construction on your water project on or before **January 1, 2014**. When you do complete construction, you must complete and submit the enclosed "Construction Notice: Completion of Construction" form. Please return the form to the Water Resources Program at Ecology's Southwest Regional Office.

If we do not receive the completed form by **January 1, 2014**, and do not hear from you otherwise, your permit may be cancelled. We understand that occasionally there are extenuating circumstances that may delay the start of a project. In this case, you **must** contact us, **in writing**, to request an **extension**.

Completing construction and submitting the "Completion of Construction" form are essential parts of the process towards securing a water right certificate. After the submission of that form, your next deadline is associated with the proof of appropriation of your water project.

***Read your permit***

Please read through your entire permit, along with the enclosed water right information sheet, to be sure you fully understand the terms and responsibilities associated with your permit. It is important to remember that this permit is not a *final* water right, it is permission by the state to *develop* a water right.



If we can provide any further assistance, please contact our office at (360) 407-6300.

Sincerely,

A handwritten signature in cursive script that reads "Thomas Loranger".

Thomas Loranger  
Water Resources Section Manager  
Southwest Regional Office

TL:th

Enclosures:    Permit # **G2-30226**  
                      "Construction Notice: Beginning of Construction" form  
                      "Important Information Regarding Your Water Right"

permit-CC.doc